Application No. 09/830,778 Attorney Docket No. 021058-0280281

<u>AMENDMENTS</u>

This complete listing of the claims replaces all prior listings or versions of the claims in this application:

Claims 1-28 (cancelled).

29. (original) An initiating element for use in a detonator comprising an initiation portion and optionally a transition portion wherein said initiation portion is at least partially contained within a confinement sleeve and comprises an intimate mixture of a relatively large particle size, porous, powdered explosive having interstitial spaces, and a relatively small particle size, high burn-rate pressurising initiator located within said interstitial spaces.

Claims 30-34 (cancelled).

- 35. (new) An initiating element of claim 29, wherein said porous powdered explosive comprises PETN, RDX, HMX, Tetryl, TNT or a mixture thereof.
- 36. (new) An initiating element of claim 35, wherein said porous powdered explosive comprises PETN.
- 37. (new) An initiating element of claim 36, wherein said PETN has a number average particle size of greater than 100 microns.
- 38. (new) An initiating element of claim 29, wherein said high burn-rate pressurising initiator is selected from the group consisting of potassium picrate, potassium styphnate, lead styphnate, potassium trinitrobenzoate, alkali or alkaline earth metal salts of nitro-aromatic compounds, and mixtures thereof.
- 39. (new) An initiating element of claim 38, wherein said high burn-rate pressurising initiator is potassium picrate.

30505486v1

Application No. 09/830,778 Attorney Docket No. 021058-0280281 Page 3

- 40. (new) An initiating element of 29, wherein said high burn-rate pressurising initiator comprises a mixture of two separate components: a material having a high burn rate at low pressure and an oxidizer.
- 41. (new) An initiating element of claim 40, wherein said oxidizer comprises potassium perchlorate or ammonium perchlorate.
- 42. (new) An initiating element of claim 41, wherein said oxidizer comprises potassium perchlorate.
- 43. (new) An initiating element of claim 29, wherein said initiation portion comprises 70 to 90% by weight of said porous powdered explosive, 5 to 15% by weight of an oxidizer and 5 to 15% by weight of a material having a high burn rate at low pressure, wherein said oxidizer and material having a high burn rate at low pressure together form said high burn-rate pressurising initiator.
- 44. (new) An initiating element of claim 29, wherein said transition portion is present.
- 45. (new) An initiating element of claim 44, wherein said transition portion comprises PETN, RDX, HMX, Tetryl or a mixture thereof.
- 46. (new) An initiating element of claim 45, wherein said transition portion comprises PETN.
- 47. (new) An initiating element of claim 46, wherein said PETN is pressed to a density ranging from 1.0 to 1.2 g/cc.
- 48. (new) An initiating element of claim 29, wherein said initiation portion comprises a mixture of 5 to 15% by weight potassium picrate having a number average particle size of less than 10 microns, 5 to 15% by weight potassium perchlorate having a particle size of less than 10

Application No. 09/830,778 Attorney Docket No. 021058-0280281

microns, and 70 to 90% by weight PETN having a particle size of greater than 100 microns, and wherein said initiation portion has been pressed into a confinement sleeve so as to have a density ranging from 1.2 to 1.5 g/cc.

- 49. (new) An initiating element of claim 46, wherein said transition portion comprises PETN having a particle size of greater than 100 microns and has been pressed into a confinement sleeve so as to have a density ranging from 1.0 to 1.2 g/cc.
- 50. (new) An initiating element of claim 29, wherein said initiation portion further comprises at least one additional component selected from the group consisting of explosives, propellants, gas-generating compounds, organic fuels, binders and combinations thereof.